



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MI Windows and Doors, Inc.  
650 West Market Street  
Gratz, PA 17030

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Series "185MD" Aluminum Single Hung Window - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 08-01489, titled "Series 185MD Single Hung Aluminum Window (52"x74")", sheets 1 through 13 of 13, dated 02/14/12, with revision A dated 05/21/12, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Manuel Perez, P.E.



*MP*  
7/16/12

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/pera](http://www.miamidade.gov/pera)

NOA No. 12-0306.02  
Expiration Date: July 12, 2017  
Approval Date: July 12, 2012  
Page 1

**MI Windows and Doors, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **08-01489**, titled "Series 185MD Single Hung Aluminum Window (52"x74")" sheets 1 through 13 of 13, dated 02/14/12, with revision A dated 05/21/12, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of a single hung window, prepared by Architectural, Inc. Test Report No. **ATI-B1762.01-109-18**, dated 09/15/11, with revision 2 dated 05/08/12, all signed and sealed by Michael D. Stremmel, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis complying with FBC-2010, dated 02/15/12, prepared, signed and sealed by Luis R. Lomas, P.E.
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

**E. MATERIAL CERTIFICATIONS**


1. Notice of Acceptance No. **08-0206.01** issued to **Solutia, Inc.** for their "**Saflex HP Glass Interlayer**" dated 04/17/08, expiring on 04/14/13.

**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated February 15, 2012, signed and sealed by Luis R. Lomas, P.E.
2. Laboratory Compliance Letter, issued by Architectural Testing, Inc. for Test Report No. **ATI-B1762.01-109-18**, dated 09/28/11, signed and sealed by Michael D. Stremmel, P.E.

**G. OTHER**

1. None.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0306.02  
Expiration Date: July 12, 2017  
Approval Date: July 12, 2012

NOTES:

- 1) THE PRODUCT SHOWN HERE IN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HVHZ.
- 2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- 4) UNITS MUST BE GLAZED PER ASTM E1300-04. SEE SHEET 2 FOR APPROVED GLAZING TYPES.
- 5) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 6) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK, THROUGH FRAME USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATION AND INSTALLATION DETAILS.
- 7) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK, THROUGH NAILING FIN USE #6 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATION AND INSTALLATION DETAILS.
- 8) FOR ANCHORING INTO MASONRY/CONCRETE AT USE 3/16" ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATION AND INSTALLATION DETAILS.
- 9) ALL FASTENERS TO BE CORROSION RESISTANT.
- 10) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
  - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
- 11) FRAME AND SASH MATERIAL TO BE ALUMINUM 6063-T5.
- 12) APPROVED CONFIGURATIONS: ORIEL AND EQUAL UNITS.
- 13) MAXIMUM D.L.O.: 46 1/4" x 34 3/4" AND 47 5/8" x 32 1/2"

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED ELEVATIONS AND DETAILS	05/21/12	R.L

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Approved as complying with the  
Florida Building Code  
Date JULY 12, 2012  
NOAH 12-0306.02  
Miami Dade Product Control  
By Manuel Pro

MI WINDOWS AND DOORS  
650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
52" X 74"  
ELEVATIONS AND NOTES

DRAWN:  
V.L.

DWG NO.  
08-01489

REV  
A

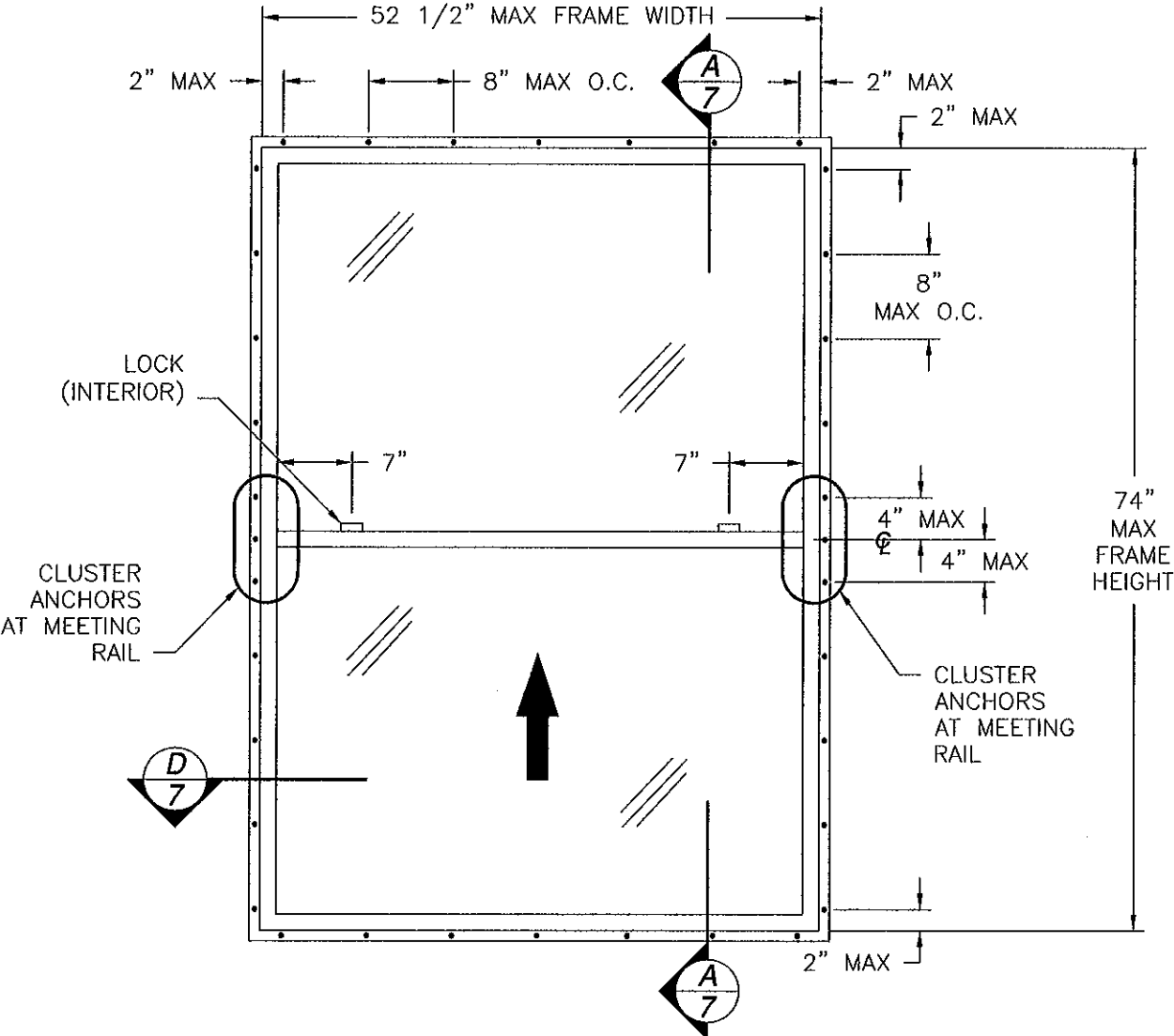
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DATE 02/14/2012

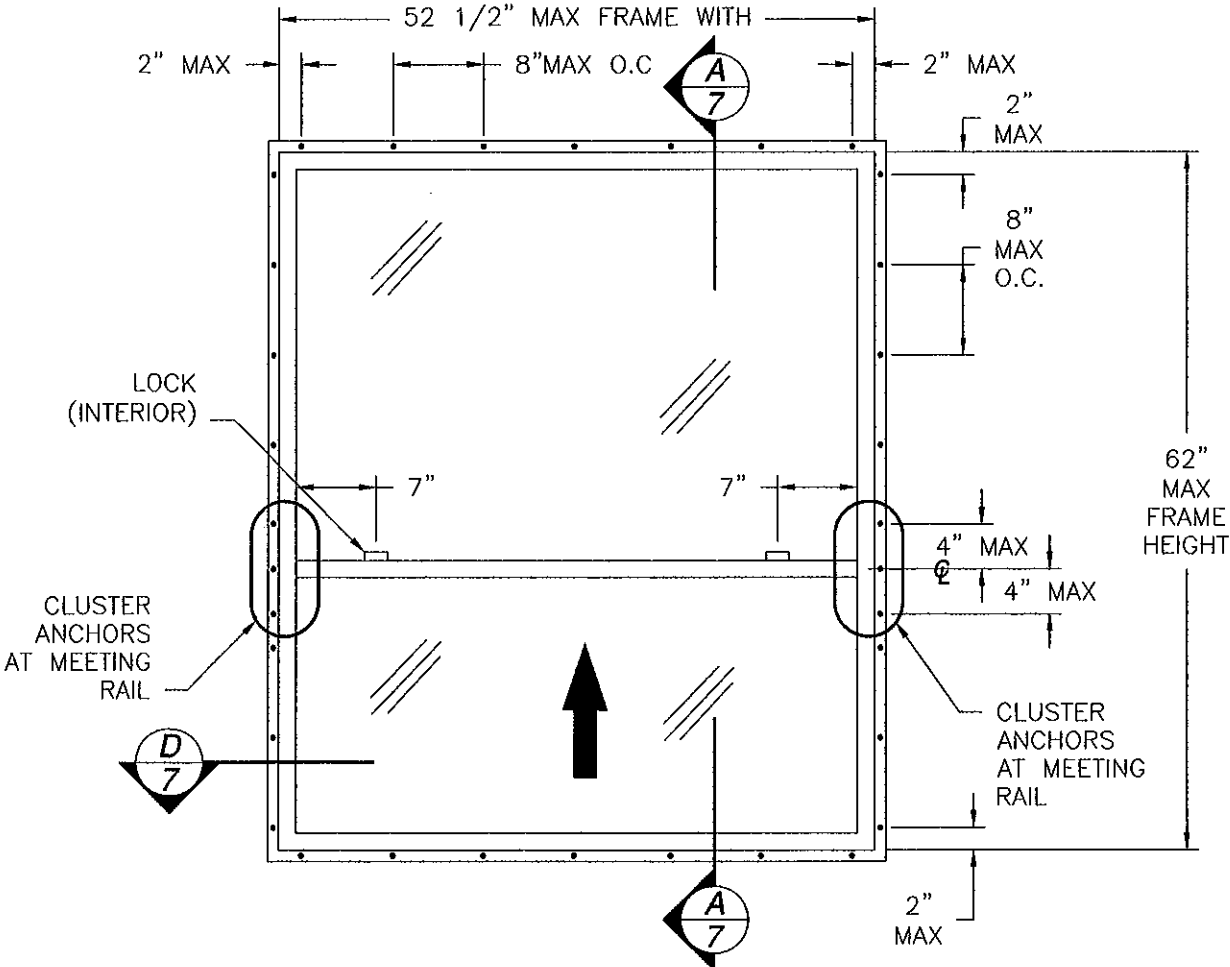
SHEET 1 OF 13

Luis R. Lomas  
06/18/12  
Luis R. Lomas P.E.  
FL No. 62514

REVISIONS			
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185MD SINGLE HUNG FIN FRAME  
EQUAL LITE EXTERIOR VIEW



185MD SINGLE HUNG FIN FRAME  
ORIEL EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-69.7PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

NOTE:  
ORIEL FIXED LITE MAY NOT EXCEED MAX D.L.O. OF  
EQUAL LITE (46 1/4 " X 34 3/4")

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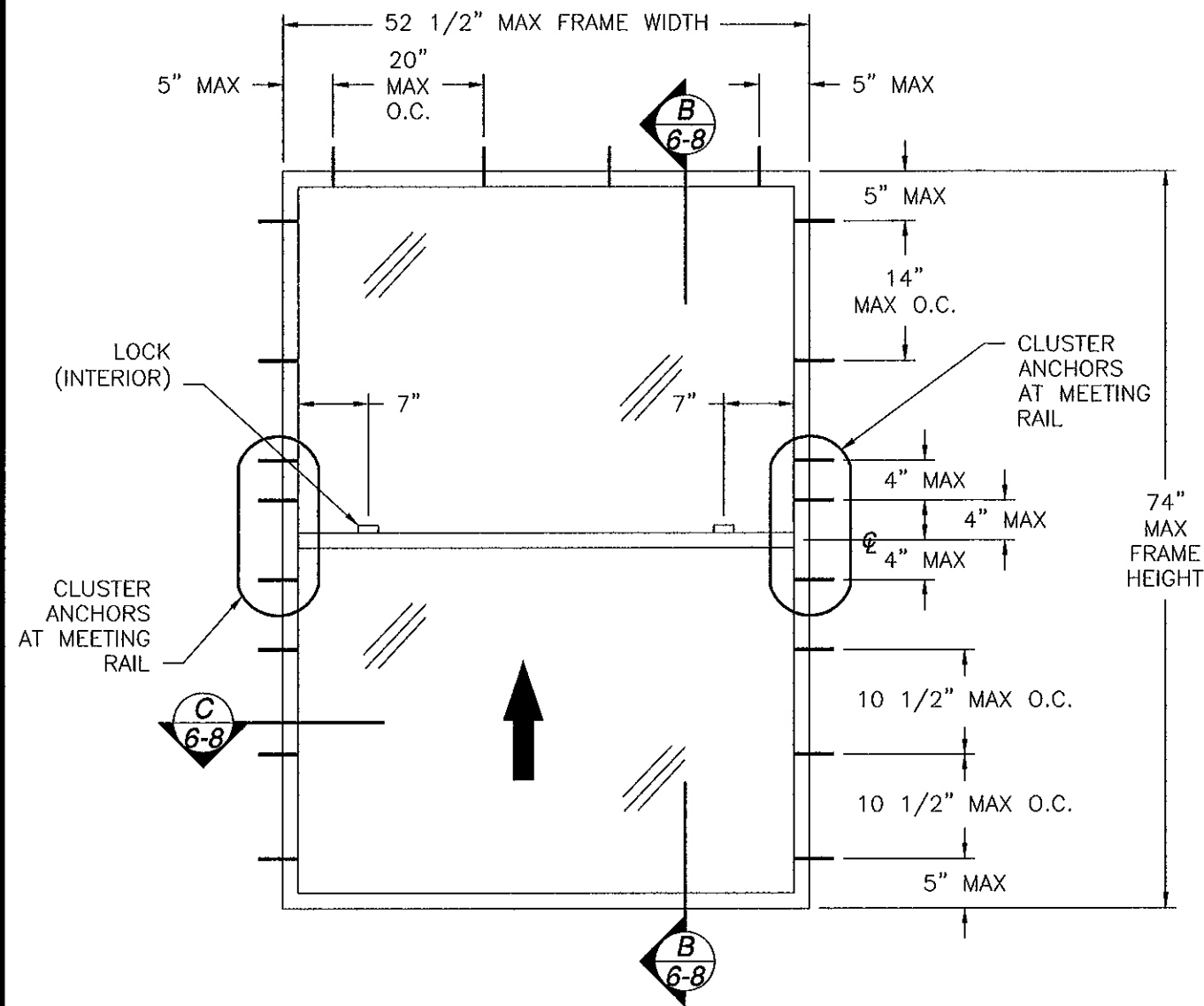
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650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

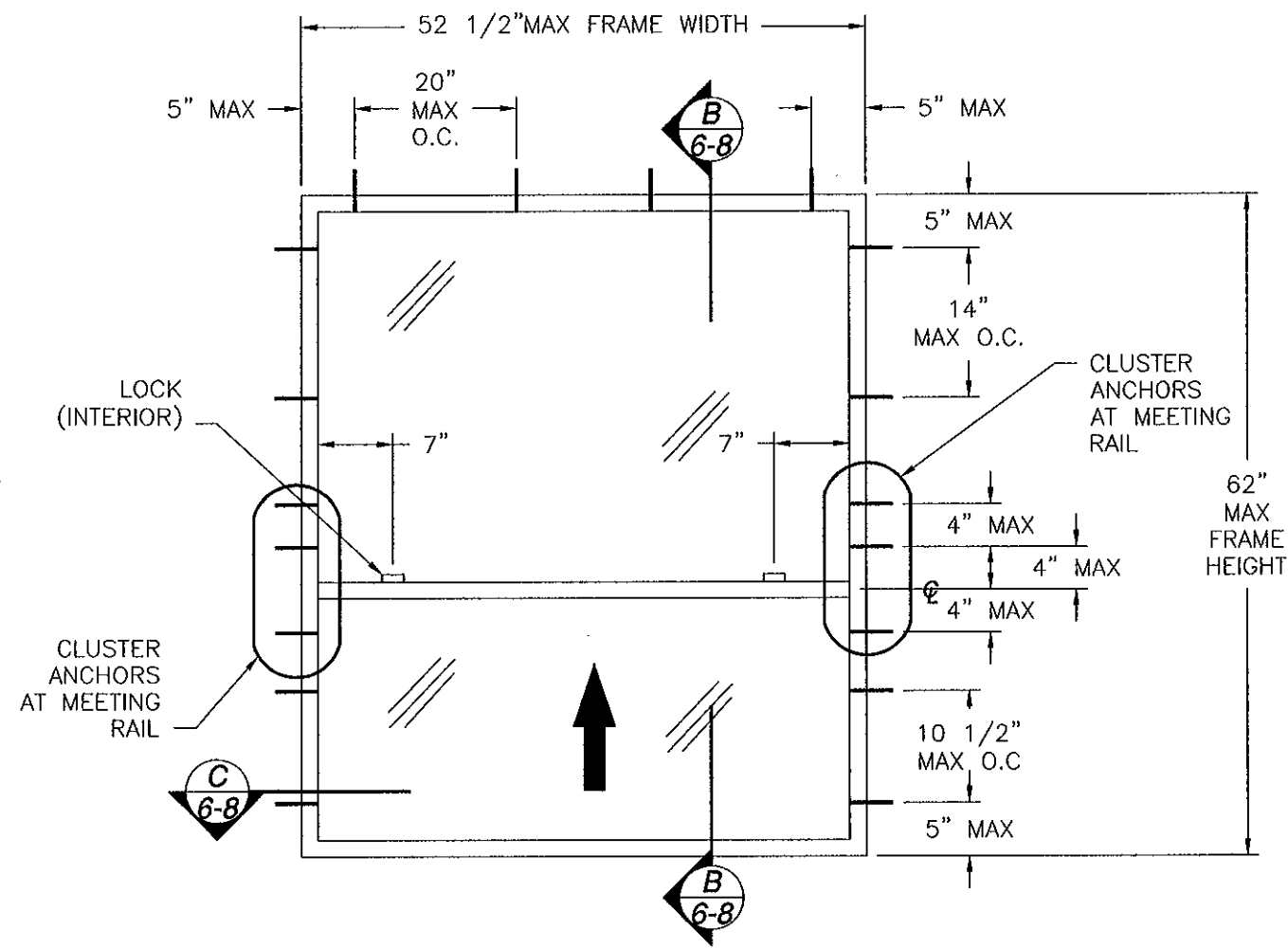
SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
52" X 74"  
ELEVATIONS AND NOTES

DRAWN: V.L.	DWG NO. 08-01489	REV A
SCALE NTS	DATE 02/14/2012	SHEET 2 OF 13

Luis R. Lomas P.E.  
FL No.: 62514



**185MD SINGLE HUNG FLANGE AND FINLESS FRAME**  
EQUAL LITE EXTERIOR VIEW



**185MD SINGLE HUNG FLANGE AND FINLESS FRAME**  
ORIEL EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+60.0/-69.7PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

NOTE:  
ORIEL FIXED LITE MAY NOT EXCEED MAX D.L.O.  
OF EQUAL LITE (46 1/4" X 34 3/4")

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**MI WINDOWS AND DOORS**

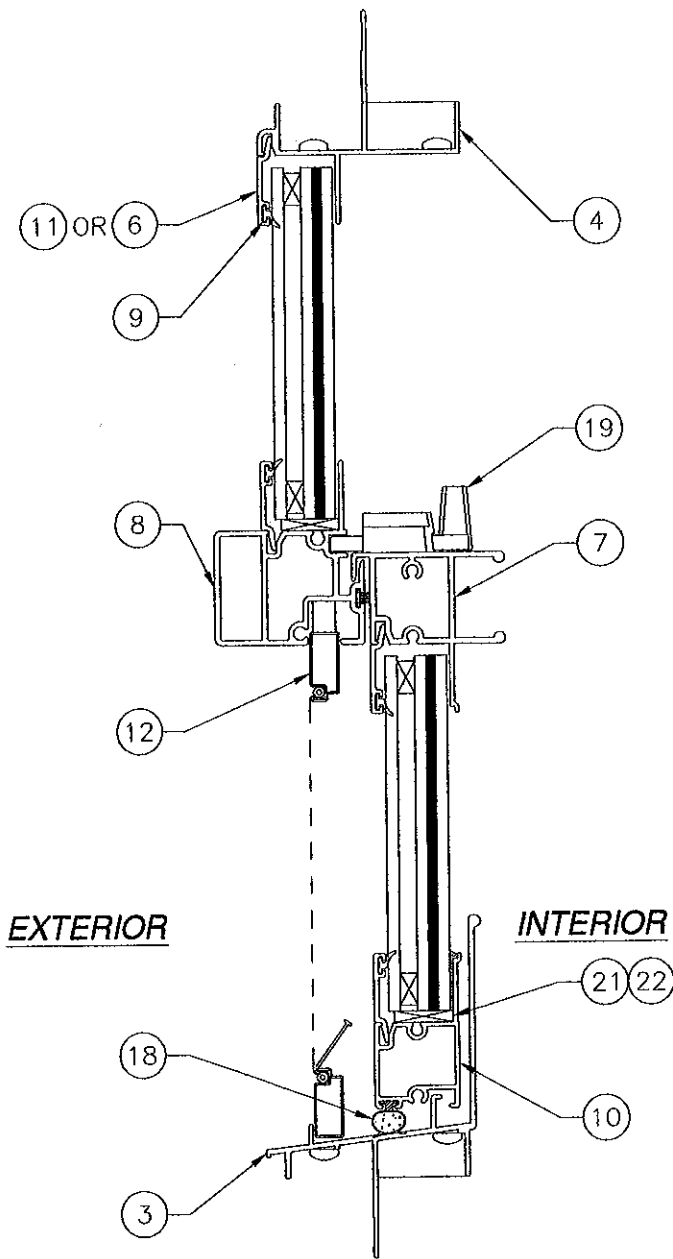
650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
52" X 74"  
ELEVATIONS AND GLAZING DETAILS

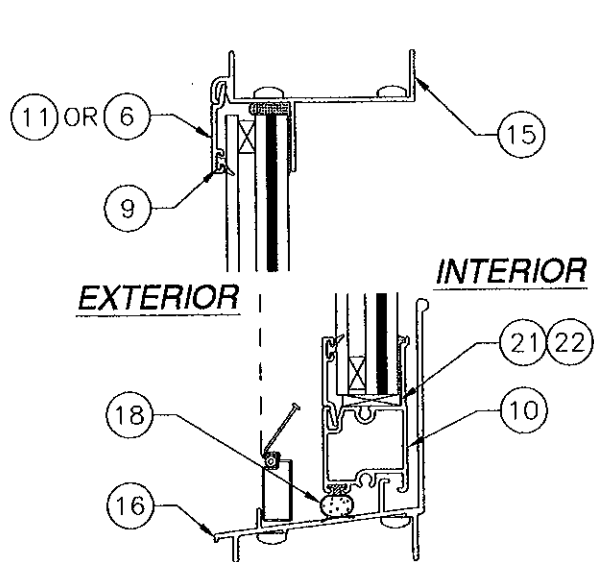
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SCALE NTS	DATE 02/14/2012	SHEET 3 OF 13

*[Signature]*  
06/18/12  
Luis R. Lomas P.E.  
FL No. 62514

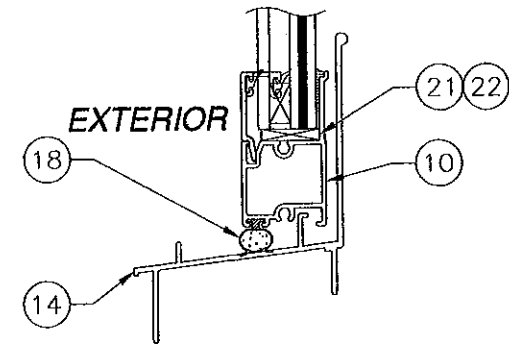
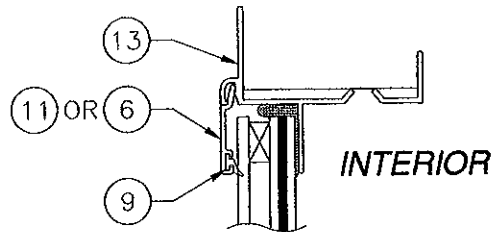
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2	CM-18513	FINLESS FRAME JAMB	MI METALS	6063-T5
3	CM-18509	FIN FRAME SILL	MI METALS	6063-T5
4	CM-18508	FIN FRAME HEAD	MI METALS	6063-T5
5	CM-18503	FLANGE FRAME JAMB	MI METALS	6063-T5
6	CM-18535	GLAZING BEAD	MI METALS	6063-T5
7	CM-18505	SASH LOCK RAIL	MI METALS	6063-T5
8	CM-18809	FIXED MEETING STILE	MI METALS	6063-T5
9	80-02-0197	VINYL FLAP		
10	CM-18506	SASH BOTTOM RAIL	MI METALS	6063-T5
11	CM-18321	GLAZING BEAD	MI METALS	6063-T5
12	RF-105	SCREEN RAIL		
13	CM-18501	FLANGE FRAME	MI METALS	6063-T5
14	CM-18502	FLANGE SILL	MI METALS	6063-T5
15	CM-18553	FINLESS FRAME	MI METALS	6063-T5
16	CM-18554	FINLESS SILL	MI METALS	6063-T5
17	CM-18510	FIN FRAME JAMB	MI METALS	6063-T5
18	MS20041G	BULB SEAL	MIWD	
19	LR00026A	LOCK, SWEEP TYPE	TKG	ZINC DIE CAST
20	WS10027G	WEATHERSTRIP	MIWD	
21	MS100440	SETTING BLOCK	MIWD	TPE 85-90 DURO
22	896TBS	BACK BEDDING	PECORA	
23	80-02-8207	SASH GUIDE	MIWD	
24		BLOCK AND TACKLE	MIWD	



VERTICAL CROSS SECTION  
FIN FRAME

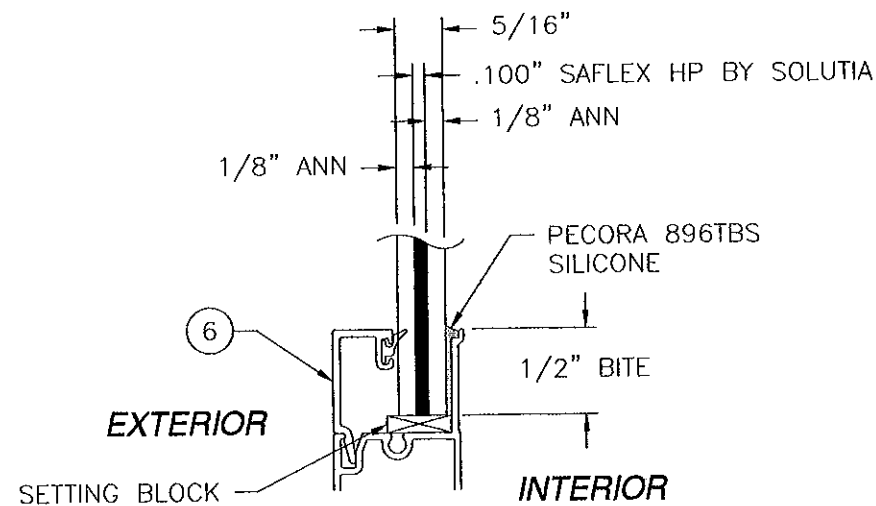


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FINLESS FRAME OPTION  
MEETING RAIL NOT SHOWN FOR CLARITY

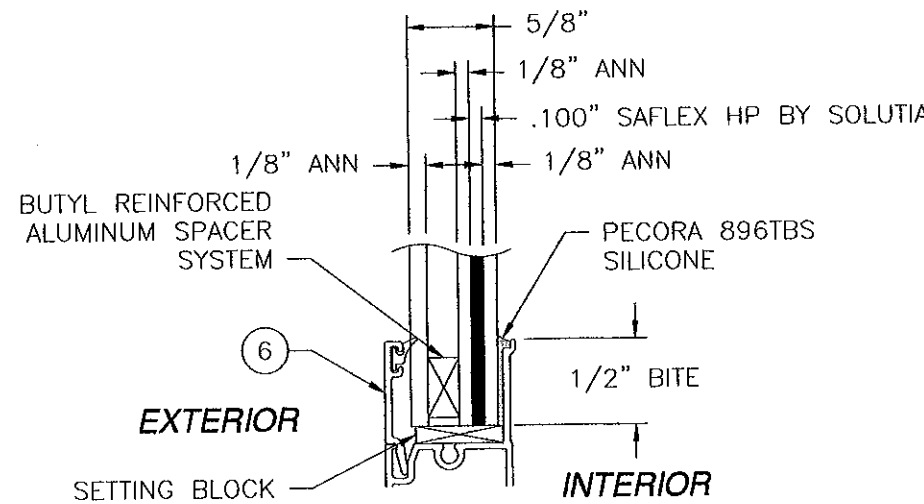


VERTICAL CROSS SECTION  
FLANGE FRAME OPTION  
MEETING RAIL NOT SHOWN FOR CLARITY

REVISIONS			
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A	REVISED ELEVATIONS AND DETAILS	05/21/12	R.L.



GLAZING DETAIL A  
5/16" LAMINATED



GLAZING DETAIL B  
5/8" IGU LAMINATED

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NOA# 12-0306-02  
Miami Dade Product Control  
By Manuel Perez

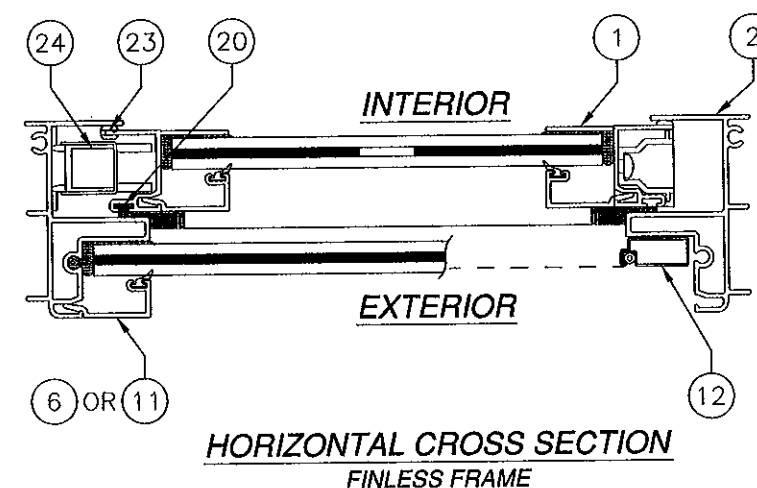
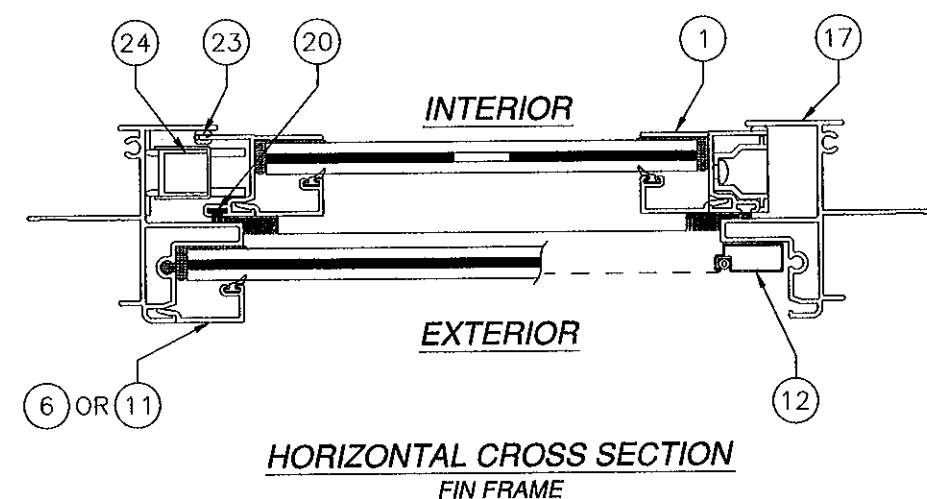
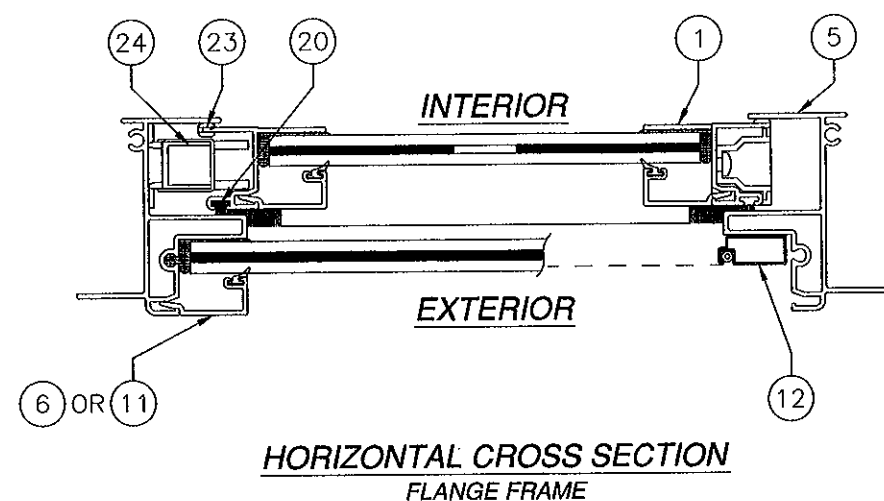
MI WINDOWS AND DOORS  
650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
52" X 74"  
VERTICAL CROSS SECTIONS

DRAWN: V.L.	DWG NO. 08-01489	REV A
SCALE NTS	DATE 02/14/2012	SHEET 4 OF 13

*Luis R. Lomas*  
06/18/12  
Luis R. Lomas P.E.  
FL No. 62514

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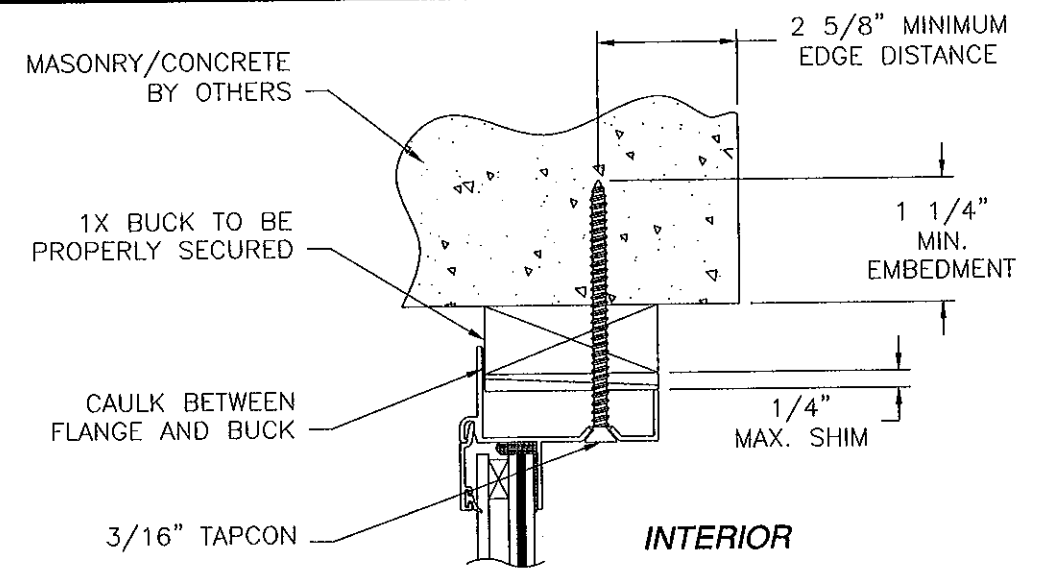
MI WINDOWS AND DOORS  
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SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
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HORIZONTAL CROSS SECTIONS

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SCALE NTS	DATE 02/14/2012	SHEET 5 OF 13

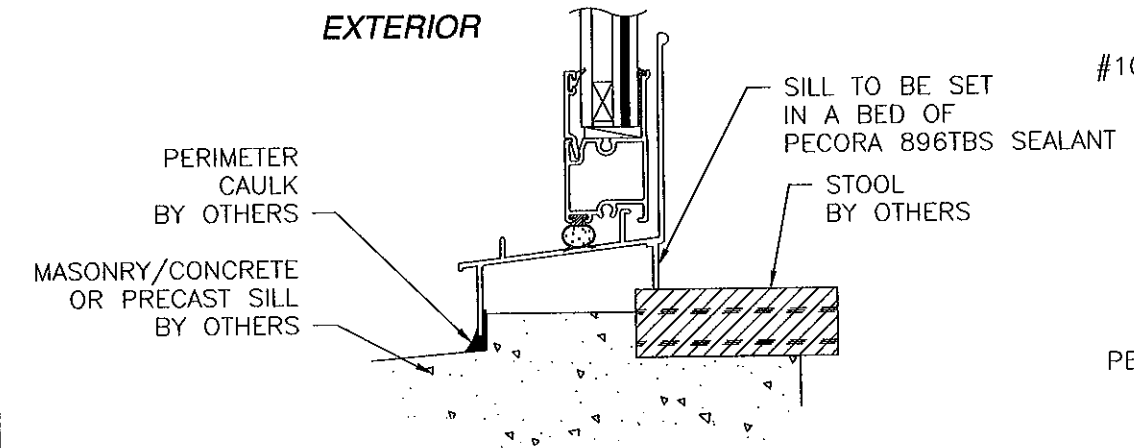
Luis R. Lomas P.E.  
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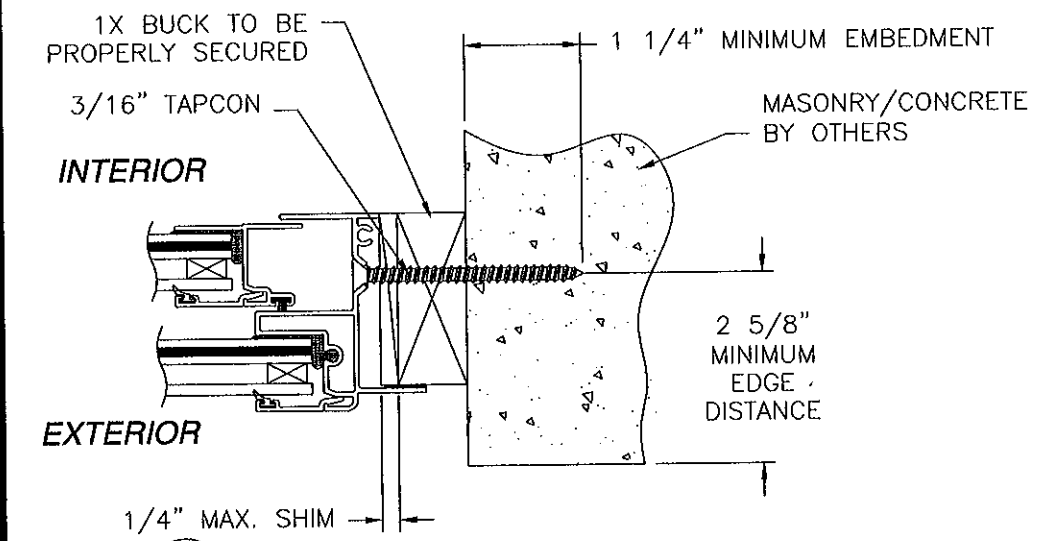


INTERIOR

EXTERIOR



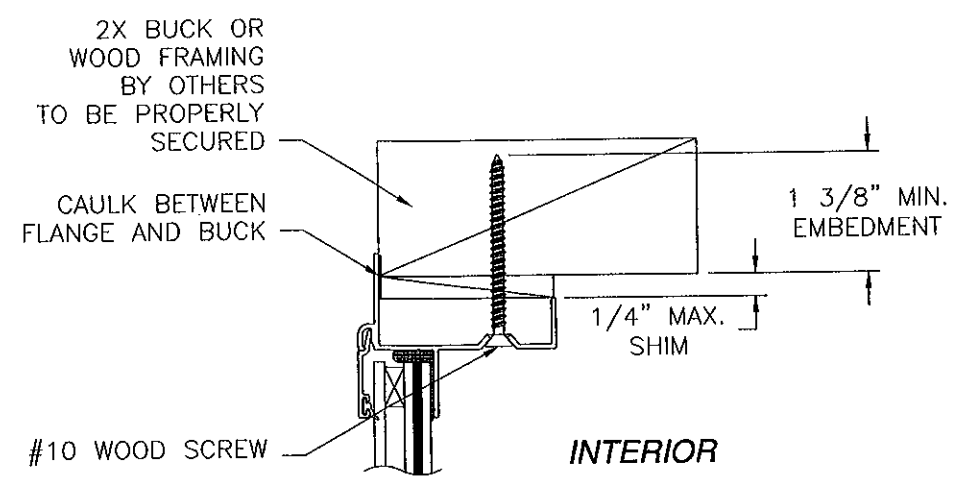
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6 VERTICAL CROSS SECTION  
MASONRY/CONCRETE FLANGE INSTALLATION



INTERIOR

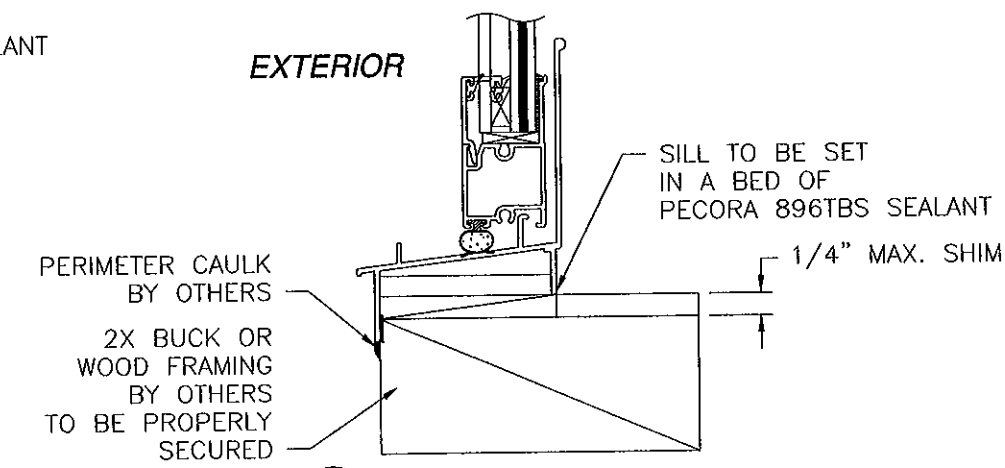
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**C**  
6 JAMB CROSS SECTION  
MASONRY/CONCRETE FLANGE INSTALLATION

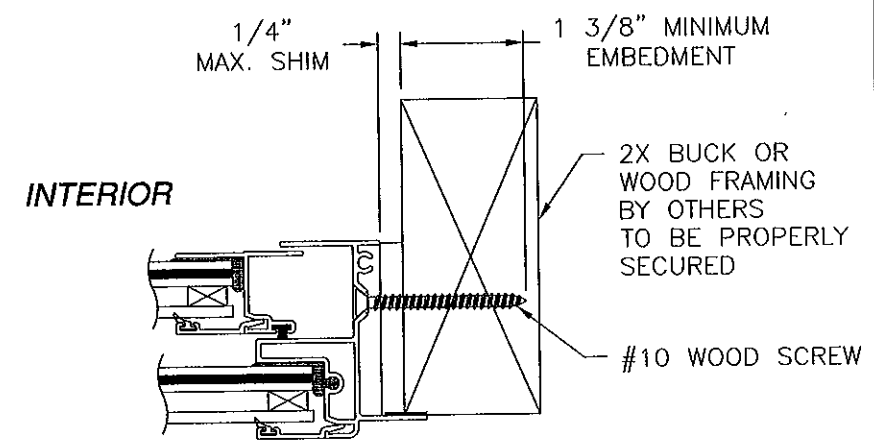


INTERIOR

EXTERIOR



**B**  
6 VERTICAL CROSS SECTION  
2XBUCK OR WOOD FRAMING FLANGE INSTALLATION



INTERIOR

EXTERIOR

**C**  
6 JAMB CROSS SECTION  
2X BUCK OR WOOD FRAMING FLANGE INSTALLATION

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MI WINDOWS AND DOORS  
650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
52" X 74"  
FLANGE INSTALLATION DETAILS

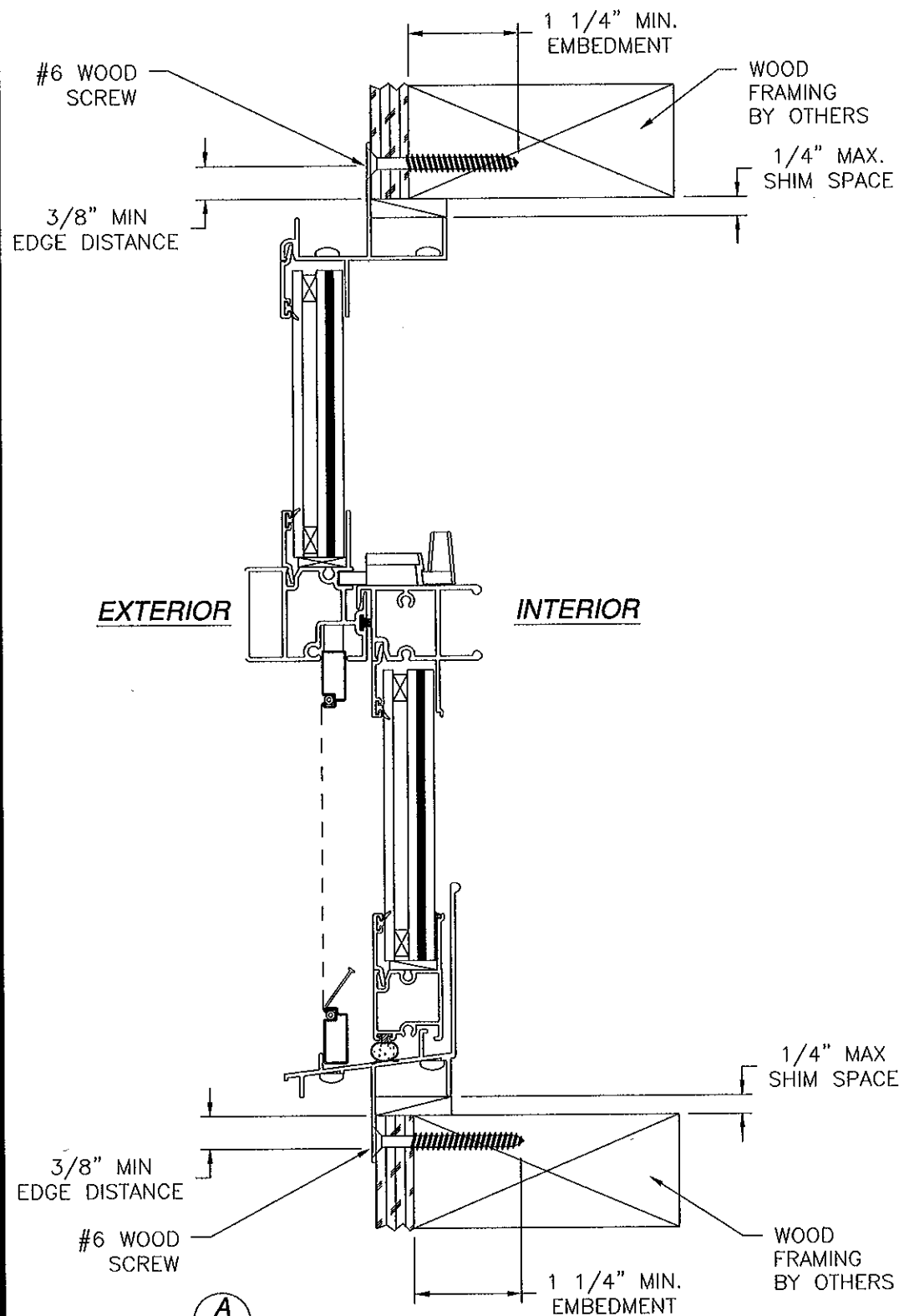
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SCALE NTS DATE 02/14/2012 SHEET 6 OF 13

*Luis R. Thomas*  
06/18/12

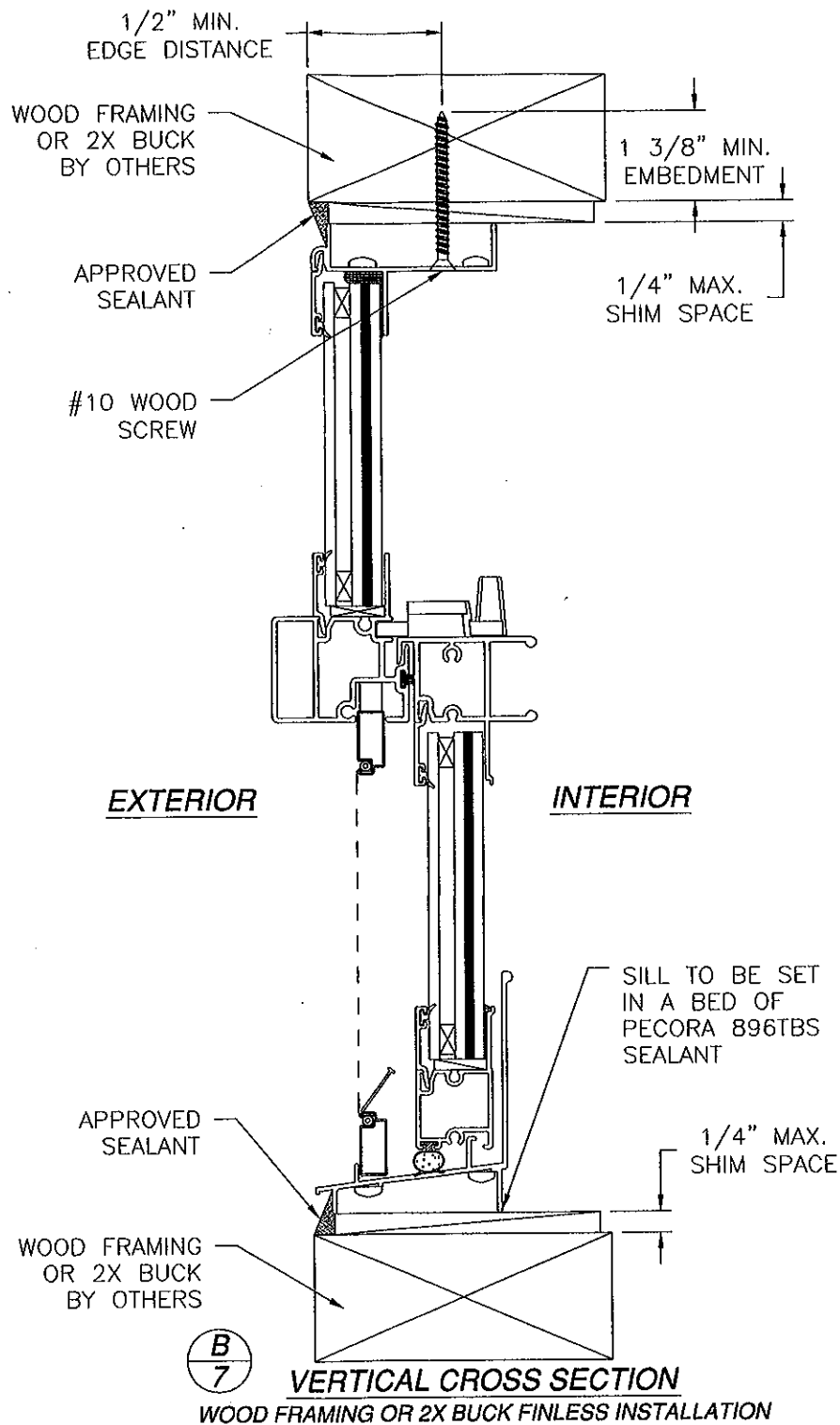
Luis R. Thomas P.E.  
FL No.: 62514





**A**  
7

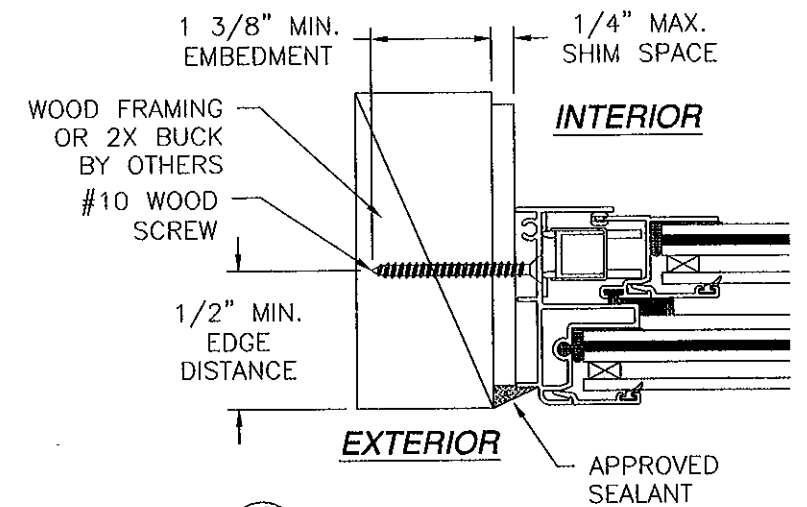
**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK NAIL FIN INSTALLATION



**B**  
7

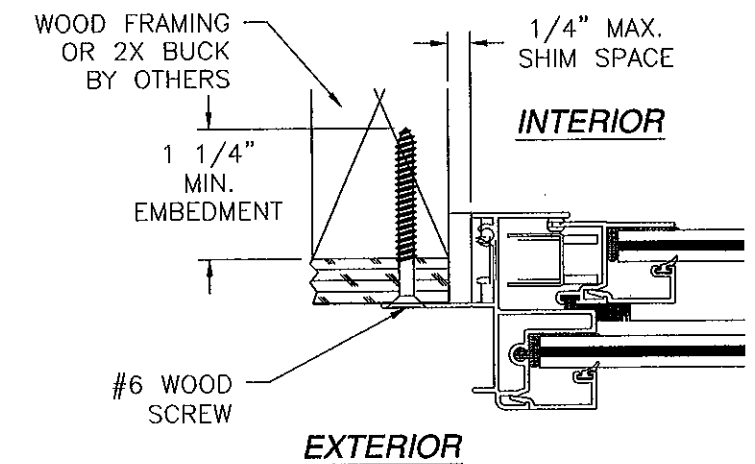
**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK FINLESS INSTALLATION

REVISIONS			
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A	REVISED ELEVATIONS AND DETAILS	05/21/12	R.L.



**C**  
7

**JAMB INSTALLATION DETAIL**  
WOOD FRAMING OR 2X BUCK FINLESS INSTALLATION



**D**  
7

**JAMB INSTALLATION DETAIL**  
WOOD FRAMING OR 2X BUCK NAIL FIN INSTALLATION

NOTE:  
INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.

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By: Manuel Perez

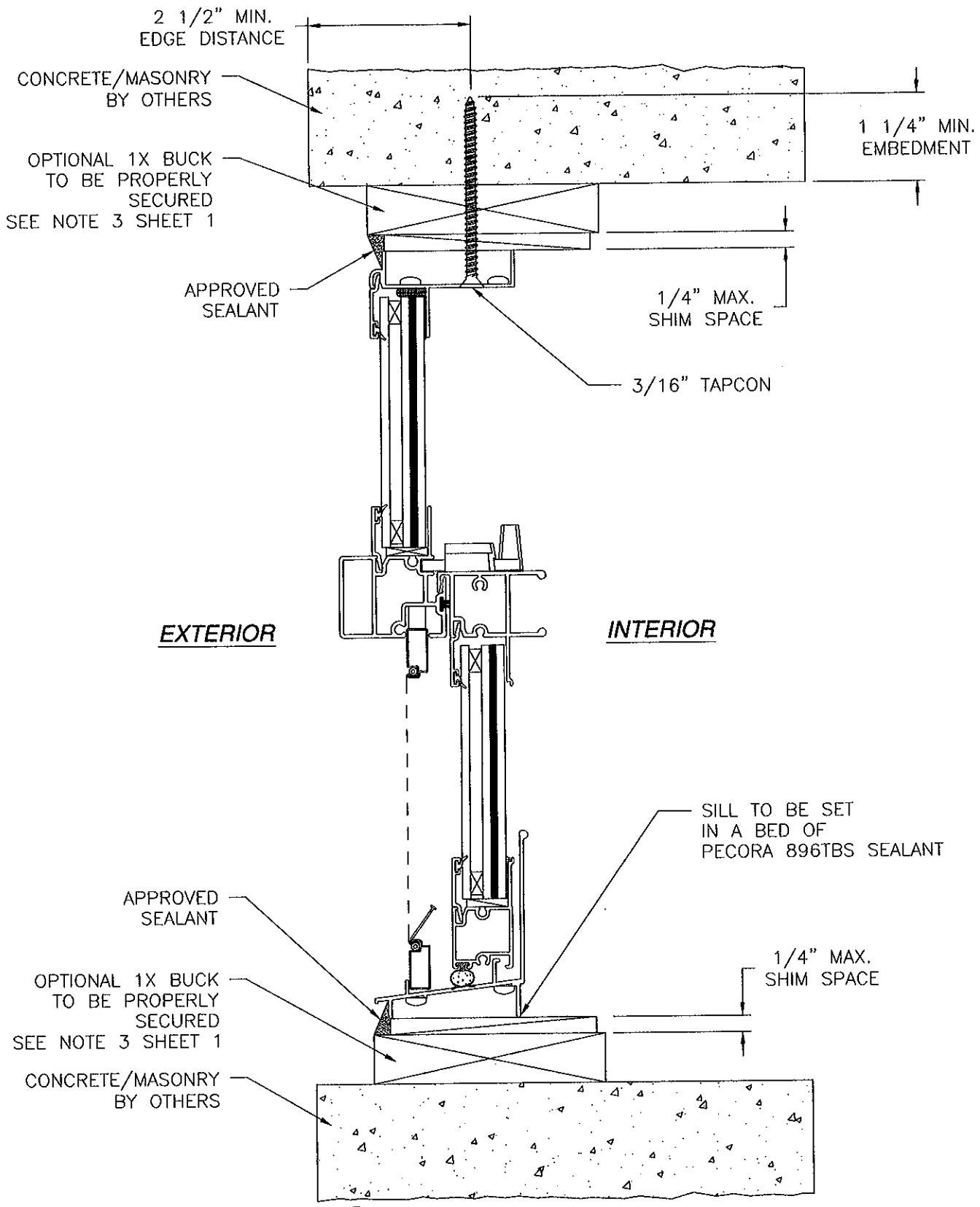
MI WINDOWS AND DOORS  
650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
52" X 74"  
FIN & FINLESS INSTALLATION DETAILS

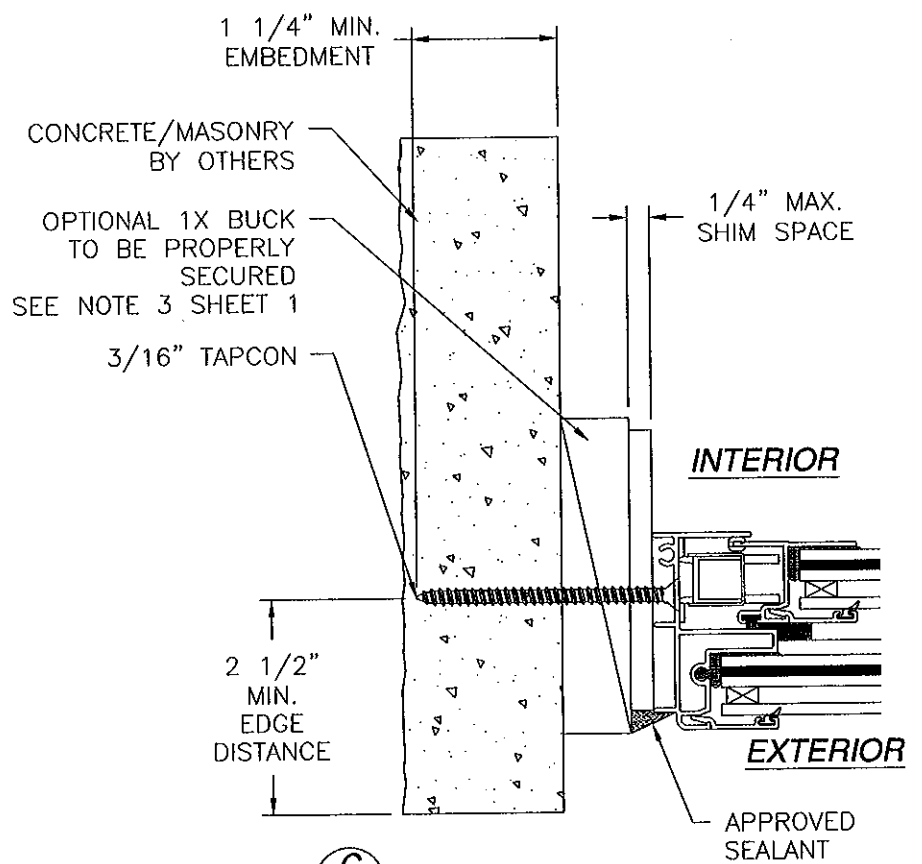
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SCALE NTS DATE 02/14/2012 SHEET 7 OF 13

Manuel Perez  
06/18/12  
Luis R. Lomas, P.E.  
FL No.: 62514

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**(B/8) VERTICAL CROSS SECTION**  
CONCRETE/MASONRY FINLESS INSTALLATION



**(C/8) JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY FINLESS INSTALLATION

NOTE:  
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**MI WINDOWS AND DOORS**  
650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

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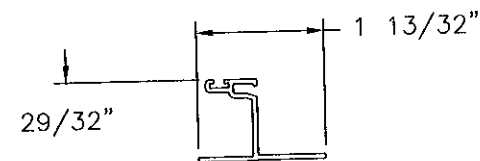
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FINLESS INSTALLATION DETAILS

DRAWN: \_\_\_\_\_ DWG NO. 08-01489 REV A  
V.L. \_\_\_\_\_  
SCALE NTS DATE 02/14/2012 SHEET 8 OF 13

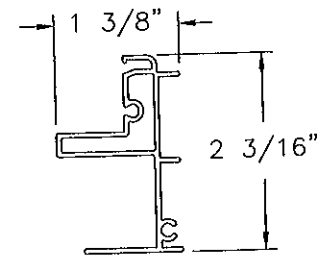
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06/18/12

Luis R. Lomas P.E.  
FL No.: 62514

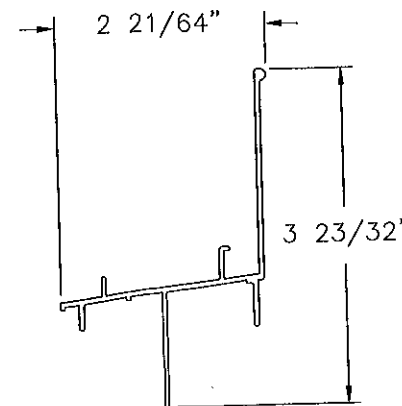
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REV	DESCRIPTION	DATE	APPROVED
A	REVISED ELEVATIONS AND DETAILS	05/21/12	R.L.



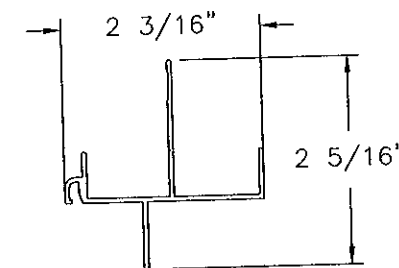
① **SASH STILE**  
6063-T5 ALUMINUM .050" THICK



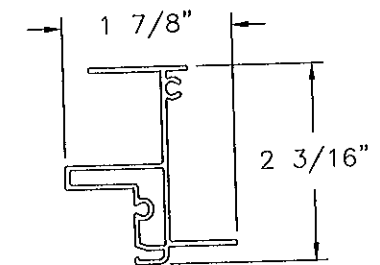
② **FINLESS FRAME JAMB**  
6063-T5 ALUMINUM .050" THICK



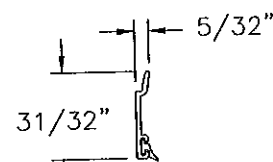
③ **FIN FRAME SILL**  
6063-T5 ALUMINUM .055" THICK



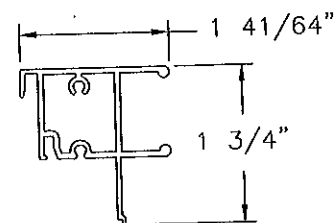
④ **FIN FRAME HEAD**  
6063-T5 ALUMINUM .050" THICK



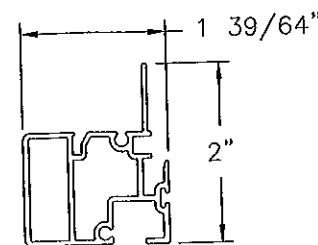
⑤ **FLANGE FRAME JAMB**  
6063-T5 ALUMINUM .050" THICK



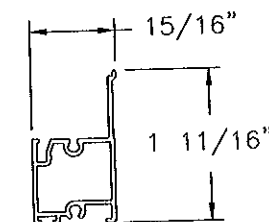
⑥ **GLAZING BEAD**  
6063-T5 ALUMINUM .050" THICK



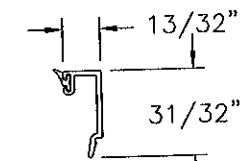
⑦ **SASH LOCK RAIL**  
6063-T5 ALUMINUM .062" THICK



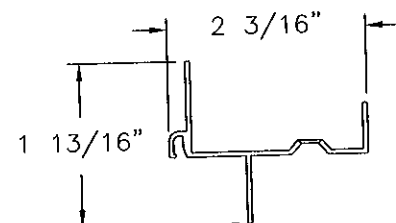
⑧ **FIXED MEETING STILE**  
6063-T5 ALUMINUM .055" THICK



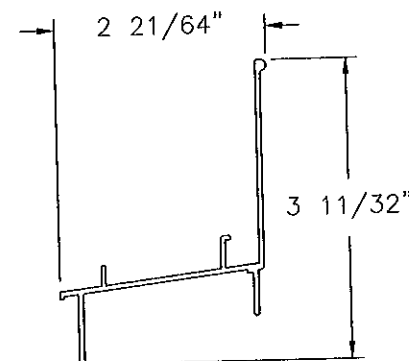
⑩ **SASH BOTTOM RAIL**  
6063-T5 ALUMINUM .045" THICK



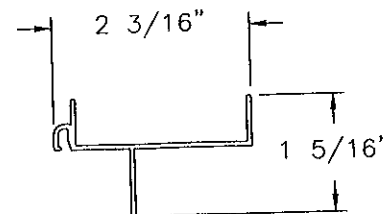
⑪ **GLAZING BEAD**  
6063-T5 ALUMINUM .050" THICK



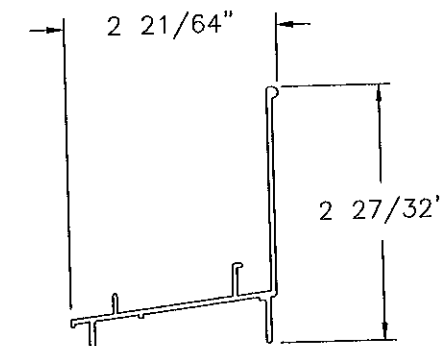
⑬ **FLANGE FRAME**  
6063-T5 ALUMINUM .050" THICK



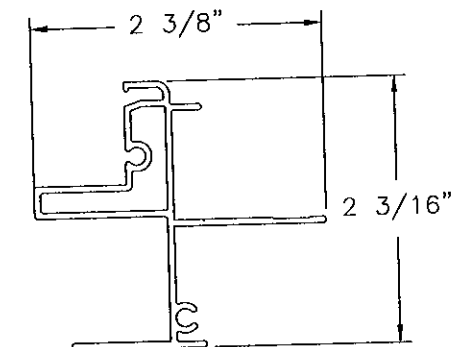
⑭ **FLANGE SILL**  
6063-T5 ALUMINUM .055" THICK



⑮ **FINLESS FRAME**  
6063-T5 ALUMINUM .050" THICK



⑯ **FINLESS SILL**  
6063-T5 ALUMINUM .055" THICK



⑰ **FIN FRAME JAMB**  
6063-T5 ALUMINUM .050" THICK

Approved as complying with the  
Florida Building Code  
Date JULY 12, 2012  
NOA# 12-0306-02  
Miami Dade Product Control  
By Manuel Perez

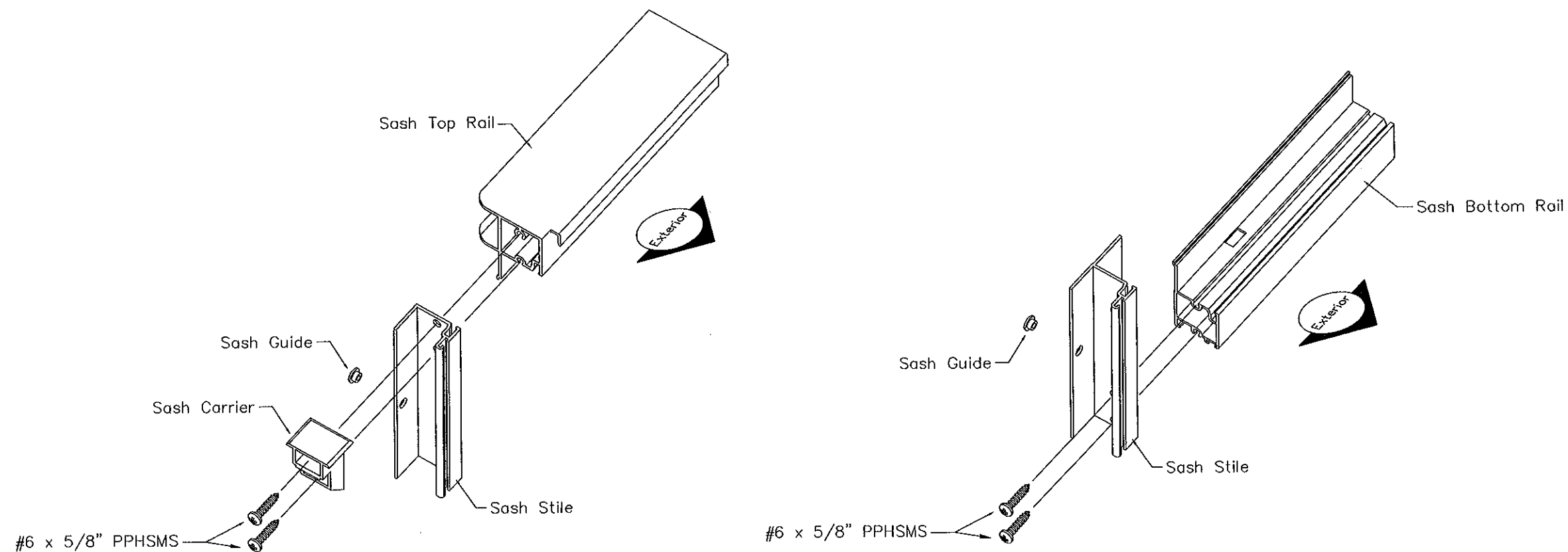
MI WINDOWS AND DOORS  
650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
52" X 74"  
COMPONENTS

DRAWN: V.L.	DWG NO. 08-01489	REV A
SCALE NTS	DATE 02/14/2012	SHEET 9 of 13

Luis R. Lomas  
06/18/12  
Luis R. Lomas P.E.  
Fl. No.: 62514

REVISIONS			
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SASH CORNER CONSTRUCTION DETAILS

Approved as complying with the  
Florida Building Code  
Date July 12, 2012  
NOAH 12-0306-02  
Miami Dade Product Control

By Mamuel Juez

MI WINDOWS AND DOORS

650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

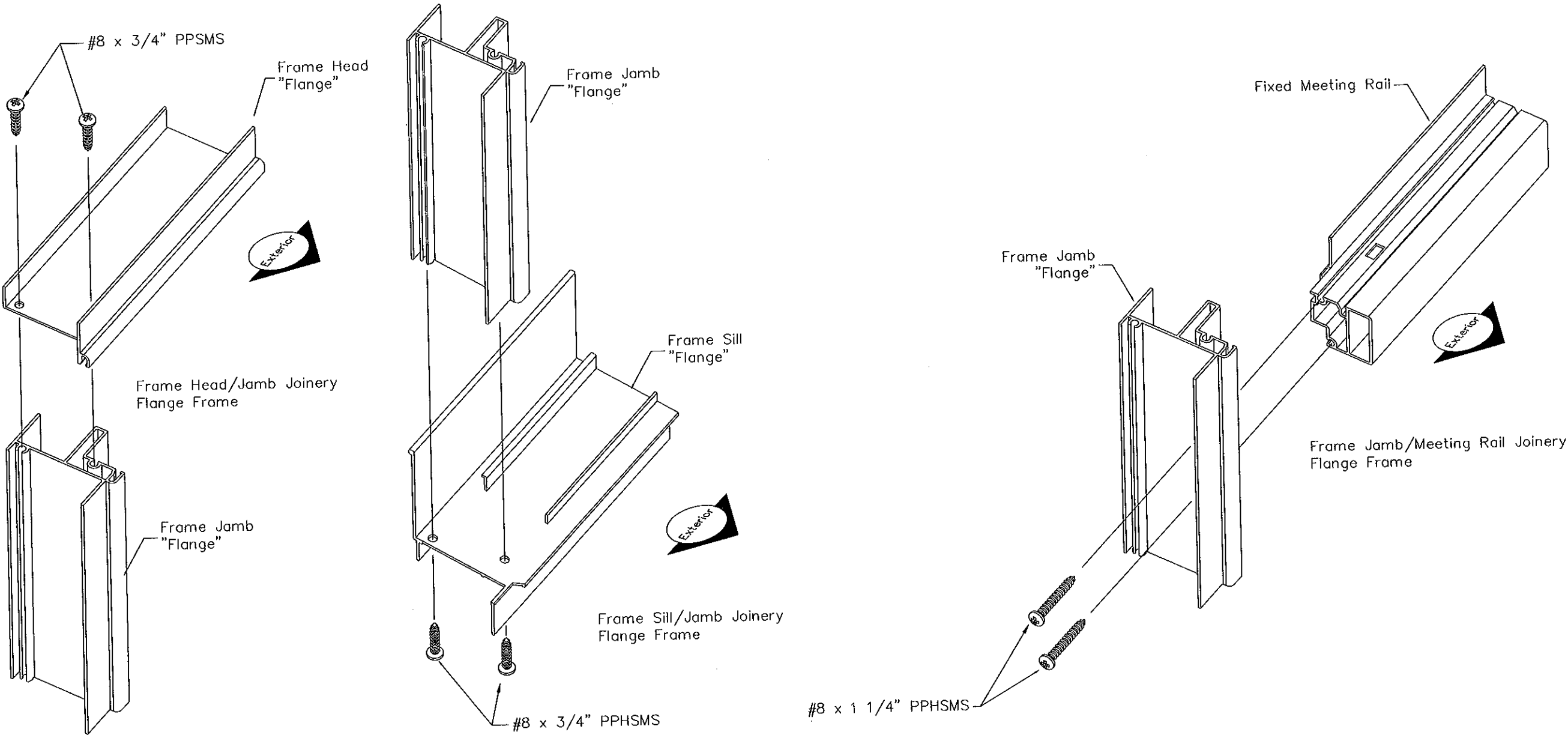
SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
52" X 74"  
SASH CORNER DETAILS

DRAWN: V.L.	DWG NO. 08-01489	REV A
SCALE NTS	DATE 02/14/2012	SHEET 10 OF 13

Luis R. Lomas  
06/18/12

Luis R. Lomas P.E.  
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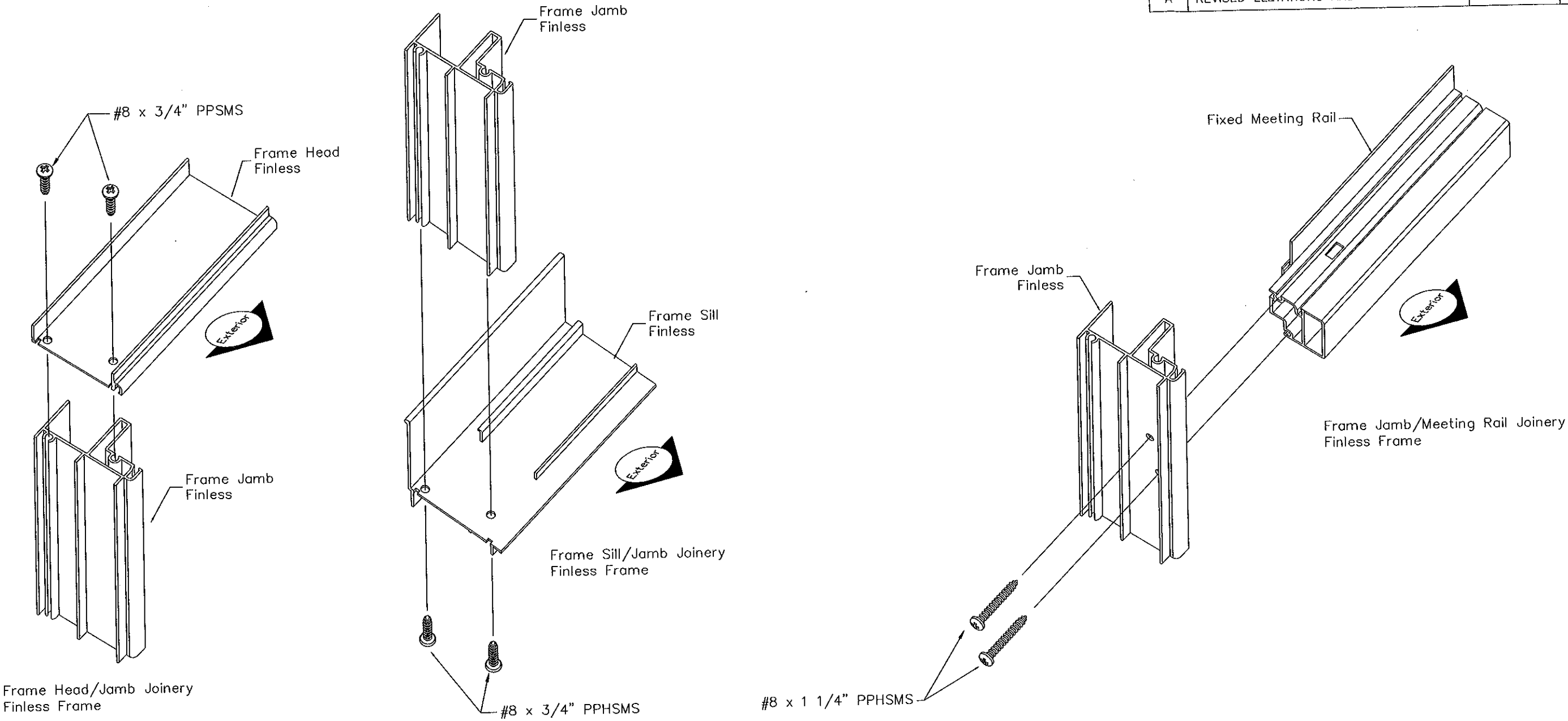
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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FLANGE FRAME CORNER CONSTRUCTION DETAILS

Approved as complying with the Florida Building Code Date: <u>July 12, 2012</u> NOA# <u>12-0306-02</u> Miami Dade Product Control By: <u>Manuel Perez</u>		MI WINDOWS AND DOORS 650 WEST MARKET STREET GRANTZ, PA 17030-0370		
		SERIES 185MD SINGLE HUNG ALUMINUM WINDOW 52" X 74" FLANGE FRAME CORNER DETAILS		
DRAWN: V.L.	DWG NO. 08-01489	REV A		Luis R. Lomas P.E. FL No.: 62514
SCALE NTS	DATE 02/14/2012	SHEET 11 OF 13		

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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FINLESS FRAME CORNER CONSTRUCTION DETAILS

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Date JULY 12, 2012  
NOA# 12-0306-02  
Miami Dade Product Control  
By Manuel Perez

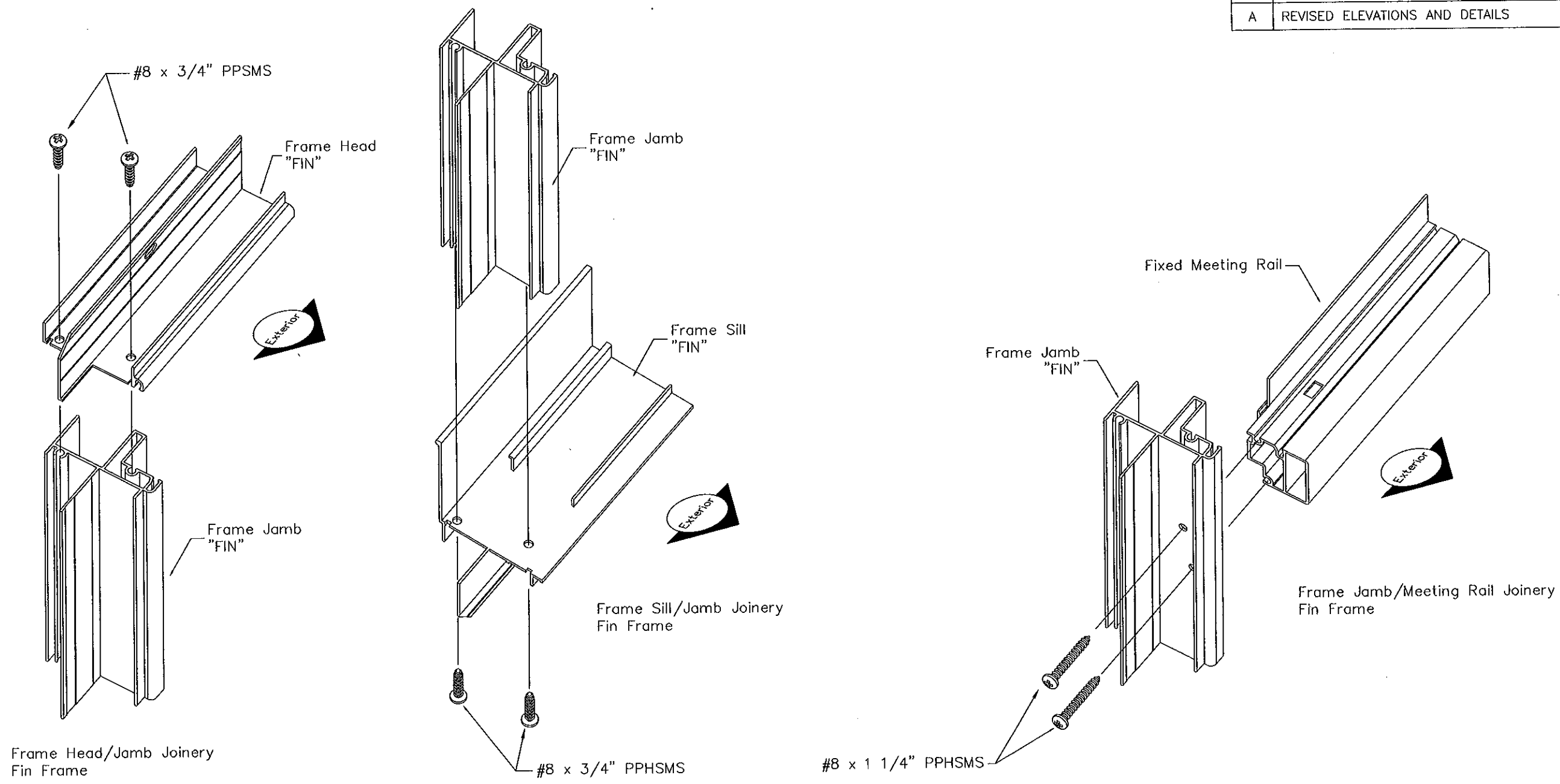
MI WINDOWS AND DOORS  
650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
52" X 74"  
FINLESS FRAME CORNER DETAILS

DRAWN: V.L.	DWG NO. 08-01489	REV A
SCALE NTS	DATE 02/14/2012	SHEET 12 OF 13

Luis R. Thomas P.E.  
FL No.: 62514  
06/12/18

REVISIONS			
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FIN FRAME CORNER CONSTRUCTION DETAILS

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Florida Building Code  
Date 11/14/12  
NOA# 12-0306-02  
Miami Dade Product Control  
By Manuel Perez

MI WINDOWS AND DOORS  
650 WEST MARKET STREET  
GRANTZ, PA 17030-0370

SERIES 185MD SINGLE HUNG ALUMINUM WINDOW  
52" X 74"  
FIN FRAME CORNER DETAILS

DRAWN: V.L.	DWG NO. 08-01489	REV. A
SCALE NTS	DATE 02/14/2012	SHEET 13 OF 13

*Luis R. Thomas*  
06/18/12  
Luis R. Thomas P.E.  
FL No.: 62514